CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	48.36	8	8
2	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
3	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
4	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
5	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
6	TACK COAT	Rate of spread	One Test		1	1

PR-09

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-28-42** **Date: 03/04/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	151.91 X 151.21 X 151.57	22970	8.215	596.3	26.0	25.8
2	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	150.14 X 149.43 X 150.31	22436	8.391	596.9	26.6	
3	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	151.53 X 150.96 X 151.34	22874	8.652	566.4	24.8	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

****End of Report****

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-28-42** **Date: 24/04/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	150.53 X 151.36 X 151.63	22784	8.597	758.3	33.3	32.9
2	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	149.34 X 150.07 X 151.96	22410	9.047	717.8	32.0	
3	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	151.13 X 150.83 X 149.72	22794	9.096	763.0	33.5	

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-28-42** **Date: 03/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)

Agency : M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/55/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	150.87 X 151.03 X 151.61	22786	8.763	583.1	25.6	25.5
2	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	149.92 X 151.31 X 150.67	22684	8.905	607.5	26.8	
3	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	151.51 X 149.28 X 150.24	22618	8.846	543.6	24.0	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

FOR CIVIL Pro.

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-28-42** **Date: 24/04/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	150.96 X 150.68 X 149.45	22748	8.196	754.8	33.2	33.4
2	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	150.41 X 151.96 X 149.41	22855	8.474	753.0	32.9	
3	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	150.03 X 150.42 X 150.42	22568	9.033	766.7	34.0	

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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Quality Manager

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Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	150.42 X 149.69 X 151.15	22516	8.334	577.3	25.6	25.2
2	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	149.97 X 149.89 X 151.29	22479	8.230	585.5	26.0	
3	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	149.30 X 151.72 X 151.94	22653	8.627	544.9	24.1	

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Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	151.31 X 151.10 X 151.37	22864	8.551	764.2	33.4	33.3
2	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	151.82 X 151.58 X 151.87	23013	9.075	754.1	32.8	
3	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	150.68 X 150.06 X 149.59	22611	8.141	763.5	33.8	

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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R KARTHIK RECHAN
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Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	150.84 X 149.74 X 149.92	22587	8.964	575.5	25.5	25.4
2	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	149.35 X 149.33 X 150.45	22303	8.731	591.7	26.5	
3	Cement Concrete Pavement	M30	27/03/2023	03/04/2023	151.96 X 150.72 X 150.83	22902	8.652	552.7	24.1	

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-ATR-09

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-28-42** **Date: 24/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)

Agency : M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/55/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	151.15 X 149.15 X 151.59	22544	8.968	755.9	33.5	33.3
2	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	150.24 X 150.86 X 149.66	22664	8.543	739.9	32.6	
3	Cement Concrete Pavement	M30	27/03/2023	24/04/2023	151.03 X 151.47 X 151.24	22877	8.260	769.0	33.6	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	21-03-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1631	8635	78.5	21.5	15-30
0.6	623	9258	84.2	15.8	8-22
0.075	1338	10596	96.3	3.7	0-5

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FOR CIVIL Pro.
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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	21-03-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-28-42**	**Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)	
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-03-23	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	21-03-23	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 30-03-23

Lab ID	:	**CP-RW-2023-04-28-42**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-23
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	28-03-23
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	472	1072	21.44	78.56	56-80
4.75	1750	2822	56.44	43.56	38-54
2.36	398	3220	64.40	35.60	28-42
0.3	1350	4570	91.40	8.60	7-21
0.075	250	4820	96.40	3.60	2-8
PAN	180	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 31-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-23
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of Test	:	28-03-23

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	15.0		
Strength	Aggregate Impact Value	18.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub Division
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 31-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-23
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	28-03-23

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

Note:-

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 31-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-23
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	28-03-23

Type of Binder	:	60/70
% of Binder Used	:	4.5%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-28-42**	**Date: 29-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)	
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-03-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	28-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	479.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	4.6	4.50
7	Average percentage	%	4.55	

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Vidyaranyapura Sub Division
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Lab ID : CP-RW-2023-04-28-42 **Date: 29-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	6	6	1.3	98.7	90-100
19	47	53	11.1	88.9	71-95
13.2	52	105	21.9	78.1	56-80
4.75	132	237	49.5	50.5	38-54
2.36	82	319	66.6	33.4	28-42
0.3	97	416	86.8	13.2	7-21
0.075	52	468	97.7	2.3	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	9	9	1.9	98.1	90-100
19	48	57	11.9	88.1	71-95
13.2	68	125	26.1	73.9	56-80
4.75	144	269	56.1	43.9	38-54
2.36	71	340	70.9	29.1	28-42
0.3	45	385	80.3	19.7	7-21
0.075	65	450	93.8	6.2	2-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-28-42**	**Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)	
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	31-03-23	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	31-03-23	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	31-03-23

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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Vidyaranyapura Sub Division
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	31-03-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub Division
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	31-03-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	_

* The results obtained are satisfactory as per standard requirements.

Note:-

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2023-04-28-42**	**Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)	
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	01-04-23	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	01-04-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.40	5.50
7	Average percentage	%	5.5	

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Vidyaranyapura Sub Division
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP-RW-2023-04-28-42 Date: 03-04-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.4	35.6	26-38
0.3	46	352	74.1	25.9	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.1	43.9	42-58
1.18	29	295	62.2	37.8	34-48
0.6	11	306	64.5	35.5	26-38
0.3	46	352	74.2	25.8	18-28
0.15	45	397	83.7	16.3	12-20
0.075	55	452	95.3	4.7	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AB-09

End of Report

Assistant Executive Engineer
Vidyaranyapura Sub Division
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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 26-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/55/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	24-03-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	63	Min 45mm
2	Softening Point, °C	50.6	Min. 47°C
3	Ductility, cm	100	Min. 40cm
4	Flash point, °C	312	Min. 220°C
	Fire point, °C	322	

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Quality Manager

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****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-04-28-42** **Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Yerappa Garden in Ward No.09 (Vidyaranyapura)
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/55/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-23
Type of Mix	:	Tack coat
Date of Test	:	01-04-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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